*Note: If a patent application has not been filed in at least one country before public showing or description of the invention, patent protection is barred in most countries of the world. **Please promptly complete and submit your invention using this Form.**

TO: Mitel Divisional Patent Committee Member for Inventor's Business Unit (for a list of members, contact the Divisional Patent Co-ordinator or the Mitel Legal Department in Kanata).

INTERNAL REFERENCE #: 439

Title of Invention: Method of releasing Teledapt cables from deeply recessed RJ connectors.

Inventor Name: (1) (Surname) Craig (Given Names) Peter Mathieson

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Inventor Name: (2) (Surname) ______ (Given Names) ______

Home Address: ______ Inventor Citizenship: ______

Inventor Name: (3) (Surname) ______ (Given Names) ______

Home Address: ______ Inventor Citizenship: ______

Division/Business Unit: R & D, BCS

Commercial Value of Invention: Mitel products or processes which may use the invention or a third party potential licensing opportunity (if not used by Mitel): Telephone handsets and enclosures utilising RJ connector

Third party collaboration or funding: none.

When is the invention scheduled to be first publicly shown or described? Date: Not yet.

Where? Event: ______ City: ______ Country: ______

Date of first written descriptions and/or drawings of the invention: 15th June 1999

Where are first written descriptions or drawings kept? Attached

Are first written descriptions and drawings signed and dated? Yes *(If not, please ensure that they are)*

Please provide a clear, complete description of the invention containing as much of the following information as possible – attach an additional sheet(s) to provide the required information.

(a) What problem is the invention intended to solve?

(b) How was this done prior to your invention? List any relevant published background information such as articles, manuals and drawings and enclose copies (if possible).

(c) Briefly, what are the key unique technical aspects of your invention?

(d) Provide a detailed technical description of the invention in your own words as to its structure and operation and provide the preferred embodiment (e.g. block diagrams, drawings or flow charts) of the invention, i.e. the best way known to you for implementing it.

(e) Describe any variations in design to the invention which you believe are possible.

(f) In what other applications may the invention be used?

Inventor(s) Signatures: (1) P. M. Craig (2) ______ (3) ______

Date: 16/6/99

Attachments: Background Information ______ Technical Description ______ Preferred Embodiment ______

Approved ✓ Rejected ______ Date Jul/6/99

Patent Committee Member Signature

Name: [illegible]

For approved invention disclosure, priority assigned by Patent Committee Member is Urgent ______ Normal ______

First Patent Application - Select U.K. ______ U.S. ______ as appropriate. Additional Corresponding Applications - Yes ______; if so, countries in which filings to be made:

Exhibit A

Patent Application.

Method of releasing Teledapt cables from deeply recessed RJ connectors

15th June 1999

Problem intended to be solved

The use of teledapt cabling in the telecom industry is widespread and in a lot of cases is intended to be handled for at least connect / disconnect purposes. This exposes the equipment to the potential of static discharge to the connector by the person connecting / disconnecting the cable. This can be overcome by recessing the connector in the housing creating a greater air gap between the person's finger and the conductors in the connector. However this negates the ease of use by requiring the use of some sort of tool / aid to deactivate the locking arm on the teledapt connector to remove the cable.

How was it done prior to this invention

ESD requirements were reduced, the electronic circuitry was designed to withstand the static discharge or the connector was recessed, reducing the ease of disconnect. All of these have negative impacts.

electrostatic discharge

Key unique technical aspects

A simple, cheap method of actuating the locking lever on a teledapt cable when the connector is recessed into the enclosure to provide ESD protection or for other reasons. It utilizes tooling features in the connector body to locate and retain it.

Invention Description

A flat piece of non conductive material (a) shaped as per figure 1 is inserted into the rear of the RJ connector. The shoulders on the part (a) prevent the part from being pulled out of the connector from the front, the length of the actuator tongue (b) is such that it extends out of the enclosure, the thickness (c) is such that it does not interfere with the teledapt cable locking arm movement and the part is prevented from being pushed out of the connector by some other means, in our case a wall incorporated in the enclosure.

being

where is the ?

As seen in figure 2, when assembled, movement of the actuator tongue outside of the enclosure will unlock the teledapt cable latch inside allowing the cable to be extracted.

Other variations

If ESD is not a concern then a conductive material can be used to make the part as an actuator.

If the provision of a wall to retain the part is problematic the features could be added to the part to retain it. Figure 3. Is an example that would retain itself on the connector housing.

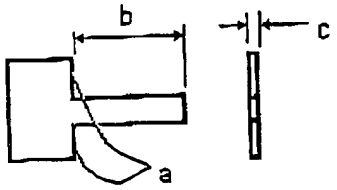
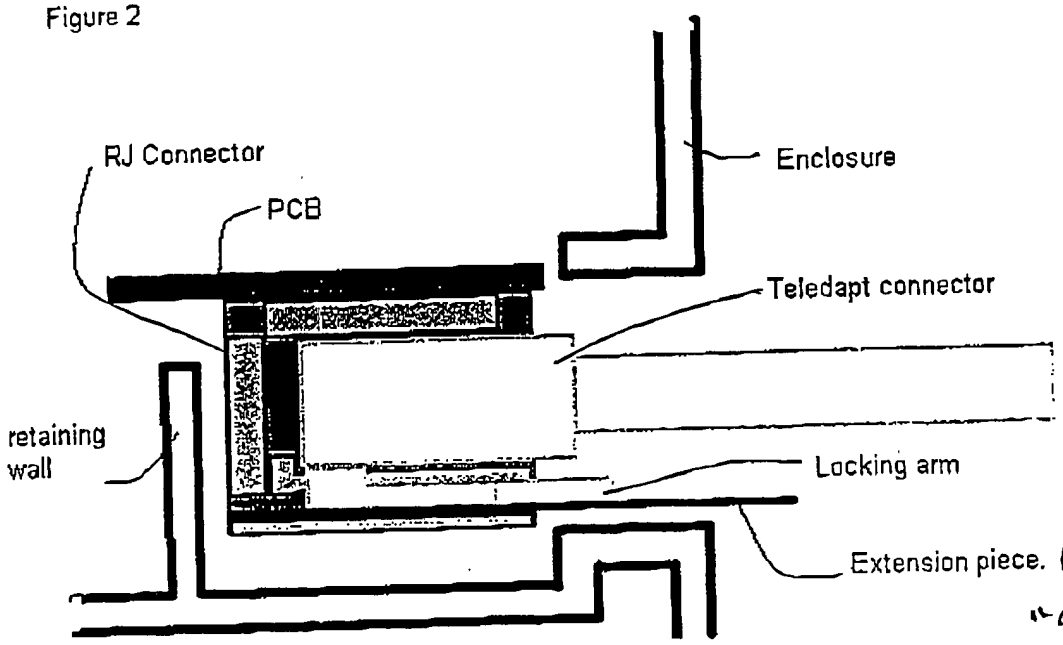


Figure 1.

Figure 2



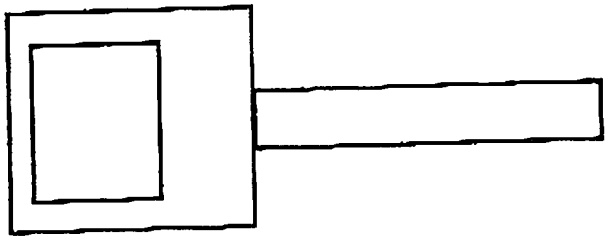


Figure 3.